PATENT COOPERATION TREAT

PCT

J	REC'D	1.3	SEP	2005
•	WIPO	<u> </u>		PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

'56 P	nt's or agent's file refere TWO/AG/Ia	FOR FURT	URTHER ACTION See Form PCT//PEA/416					
		tul-mattemal fil	ing date (day/month/year)	Priority date (day/month/year)				
PCT/EP2004/052235 17.09.2004			17.09.2003					
emat	ional Patent Classificati	on (IPC) or national classificat	ion and IPC					
29C4	49/48							
- alloc	not .							
	A. SOCIETA INDU	STRIALIZZAZIONEet						
 ·	This report is the inte	rnational preliminary exam e 35 and transmitted to the	ination report, established applicant according to Art	by this International Preliminary Examining ticle 36.				
	This DEDORT consis	sts of a total of 5 sheets, in	cluding this cover sheet.					
		semponied by ANNEXES.	comprising:					
•	This report is also accompanied by ANNEXES, comprising: a. sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:							
	sheets of the description, claims and/or drawings which have been among and Section 607 of the							
	Administ	rative Instructions).		an amendment that goes				
	Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheet sheets are sheet sheets.							
	beyond the disclosure in the international application as the state of electronic carrier(s)) containing a							
	b C (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), software type and number of electronic carrier(s),							
	sequence listing and/or tables related thereto, in computer readable form crity, do that sequence listing and/or tables related thereto, in computer readable form crity, do that sequence listing (see Section 802 of the Administrative Instructions). Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
	Box Helaulig	10 Ocquerios Elemis (
4.	This report contains indications relating to the following items:							
•••								
		sele of the Oblition						
		lasis of the opinion						
	☐ Box No. II F		n with regard to novelty, ir	nventive step and industrial applicability				
	☐ Box No. II F	Priority Non-establishment of opinion		nventive step and industrial applicability				
	☐ Box No. II F ☐ Box No. III N ☐ Box No. IV L	Priority Non-establishment of opinion Lack of unity of invention	Adialo 35/2) with regard to	o novelty, inventive step or industrial				
	☐ Box No. II F☐ Box No. III N☐ Box No. IV ☐ Box No. V	Priority Non-establishment of opinic ack of unity of invention Reasoned statement under applicability; citations and e	Adialo 35/2) with regard to	o novelty, inventive step or industrial				
	☐ Box No. II F☐ Box No. III N☐ Box No. IV ☐ Box No. V	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e	Article 35(2) with regard to explanations supporting suc	o novelty, inventive step or industrial				
	□ Box No. II F □ Box No. III N □ Box No. IV L □ Box No. V I	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e Certain documents cited Certain defects in the inter	Article 35(2) with regard to explanations supporting such attional application	o novelty, inventive step or industrial				
	□ Box No. II F □ Box No. III N □ Box No. IV L □ Box No. V I	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e	Article 35(2) with regard to explanations supporting such attional application	o novelty, inventive step or industrial				
	Box No. II Box No. II Box No. IV Box No. V Box No. VI Box No. VI Box No. VII Box No. VIII	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e Certain documents cited Certain defects in the interr Certain observations on the	Article 35(2) with regard to explanations supporting such national application e international application	o novelty, inventive step or industrial ch statement				
Da	□ Box No. II F □ Box No. III N □ Box No. IV L □ Box No. V I	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e Certain documents cited Certain defects in the interr Certain observations on the	Article 35(2) with regard to explanations supporting such national application e international application	o novelty, inventive step or industrial				
	Box No. II Box No. III Box No. IV Box No. V Box No. V Box No. VI Box No. VIII Box No. VIII	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e Certain documents cited Certain defects in the interr Certain observations on the	Article 35(2) with regard to explanations supporting such attional application e international application Date of complete in the complete comple	o novelty, inventive step or industrial ch statement				
	Box No. II Box No. II Box No. IV Box No. V Box No. VI Box No. VI Box No. VII Box No. VIII	Priority Non-establishment of opinic Lack of unity of invention Reasoned statement under applicability; citations and e Certain documents cited Certain defects in the interr Certain observations on the	Article 35(2) with regard to explanations supporting such national application e international application	o novelty, inventive step or industrial ch statement				
12	Box No. II Box No. III Box No. IV Box No. V Box No. VI Box No. VI Box No. VIII Box No. VIII Control of submission of the of	Priority Non-establishment of opinion ack of unity of invention Reasoned statement under applicability; citations and ecertain documents cited Certain defects in the interrocertain observations on the demand	Article 35(2) with regard to explanations supporting such attional application e international application Date of complete in the complete comple	o novelty, inventive step or industrial ch statement letion of this report				
12	Box No. II Box No. III Box No. IV Box No. V Box No. V Box No. VI Box No. VIII Box No. VIII Cate of submission of the cate	Priority Non-establishment of opinion ack of unity of invention Reasoned statement under applicability; citations and experience of the International Remand Priority Priority Reasoned statement under applicability; citations and experience of the internations on the international soft the International	Article 35(2) with regard to explanations supporting such attional application e international application Date of completion 12.09.2005	o novelty, inventive step or industrial ch statement letion of this report				
12	Box No. II Box No. III Box No. IV Box No. V Box No. V Box No. VI Box No. VIII Box No. VIII Cate of submission of the of submission of the of submission addresseliminary examining audresseliminary examining audr	Priority Non-establishment of opinion ack of unity of invention Reasoned statement under applicability; citations and experience of the interest of the intere	Article 35(2) with regard to explanations supporting such attional application e international application Date of completion 12.09.2005	o novelty, inventive step or industrial ch statement letion of this report fficer				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/052235

	Вох	No. I	Basis of the report			
1.	tiled	unies	to the language , this report is based on the international application in the language in which it was otherwise indicated under this item.			
		This re	port is based on translations from the original language into the following language , is the language of a translation furnished for the purposes of:			
		□ pul	ernational search (under Rules 12.3 and 23.1(b)) Olication of the international application (under Rule 12.4) Pernational preliminary examination (under Rules 55.2 and/or 55.3)			
2	2. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	De	scriptio	n, Pages			
	1-5	;	as originally filed			
	Claims, Numbers		umbers received on 15.07.2005 with letter of 13.07.2005			
	1-5					
	Dr	awings	, Sheets			
	1/3	3-3/3	as originally filed			
		a se	quence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
	з. 🗆	The	amendments have resulted in the cancellation of:			
	J	□ t	ne description, pages			
			ne claims, Nos. he drawings, sheets/figs			
		□ t	he sequence listing <i>(specify)</i> : any table(s) related to sequence listing <i>(specify)</i> :			
	4. E	nad not Suppler	s report has been established as if (some of) the amendments annexed to this report and listed below been made, since they have been considered to go beyond the disclosure as filed, as indicated in the nental Box (Rule 70.2(c)).			
			the description, pages the claims, Nos. the drawings, sheets/figs			
			the sequence listing <i>(specify)</i> : any table(s) related to sequence listing <i>(specify)</i> :			
		* If	item 4 applies, some or all of these sheets may be marked "superseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/052235

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-5

No: Claims

Inventive step (IS) Yes: Claims 1-5

No: Claims

Industrial applicability (IA) Yes: Claims 1-5

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

PCT/EP2004/052235

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: PATENT ABSTRACTS OF JAPAN vol. 1996, no. 11, 29 November 1996 (1996-11-29) -& JP 08 174552 A (HAKKO DENKI SEISAKUSHO:KK), 9 July 1996 (1996-07-09)

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows:

A heated blow mould for making thermoplastic containers using the thermostabilizing treatment or heat-set process wherein a mould holder with a wall of a desired thickness is divided into two mirror shell halves each housing half a mould with a specific shape or making the container to be made comprising a heating system with a set of first electric heating elements placed parallel to the generator of the container to be made.

The subject-matter of claim 1 differs from this known blow mould in that it comprises second electric heating elements, which are substantially transversal to said first elements and placed in areas where more heat must be supplied, wherein said first and said additional electric heating elements are electrically connected to each other and wherein the first and second electric heating elements are placed between said mould holder and said mould.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as that the moulds get more expensive when the moulds themselves are equipped with heating elements and that separate heating elements applied outside the moulds normally results in a too low heat transfer.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/052235

The proposed solution is not described in any single prior art document or combination of prior art documents.

Claims 2-5 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Re Item VII

Note: The newly filed claims are considered to be allowable, but the description is not in conformity with these claims.

NEW CLAIMS

5

10

15

20

1. A heated blow mould (2) for making thermoplastic containers using the thermostabilizing treatment or heat-set process wherein a mould holder with a wall of a desired thickness is divided into two mirror shell halves each housing half a mould with a specific shape for making the container to be made comprising a heating system with a set of first electric heating elements (3, 4, 5, 6) placed parallel to the generator of the container to be made,

characterised in that it comprises second electric heating elements (7, 8, 9, 10), which are substantially transversal to said first elements and placed in areas where more heat must be supplied, wherein said first (3, 4, 5, 6) and said additional electric heating elements (7, 8, 9, 10) are electrically connected to each other and wherein the first and second electric heating elements (7, 8, 9, 10) are placed between said mould holder and said mould.

- A heated mould as claimed in claim 1 wherein said first electric heating elements are tubular electric resistors and are arranged parallel to each other.
- A heated mould as claimed in claim 1 wherein said additional heating elements are placed at the top and bottom ends of the container to be made.
- 4. A mould as claimed in claim 1 wherein at least one of said heating systems is placed near the inside surface of the mould holder, while at 25 least another of said heating systems is placed hearer the outside face of the mould.
 - 5. A mould as claimed in claim 1 wherein a layer of thermally insulating material is placed at the outside surface of the mould holder.

30

BEST AVAILABLE COPY